

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. - 22. (Canceled)

23. (Previously Presented) A mobile device having wireless antennas and operable in a wireless communication network having a plurality of base stations, characterized in including:

two or more antennas installed spatially apart such that the base station of which radio wave intensity becomes maximum differs antenna by antenna, where the mobile device is located in the vicinity of a boundary of wireless areas;

a communication facility configured to allow simultaneous utilizing of said two or more antennas, thereby to simultaneously communicate with a plurality of the base stations;

a detector configured for detecting a transmission/reception condition of said antennas; and

a hand-over facility configured for performing a hand-over process based upon difference of said transmission/reception condition of each of said antennas.

24. (Previously Presented) The mobile device according to claim 23, characterized in that said mobile device is a vehicle.

25. (Previously Presented) The mobile device according to claim 23, characterized in that said mobile device is a train.

26. (Previously Presented) The mobile device according to claim 23, characterized in that said mobile device is a ship.

27. (Previously Presented) The mobile device according to claim 23, characterized in raising communication reliability in a case where a set of base stations with

which communication is possible via the antenna differ antenna by antenna, by communicating with respective separate base stations.

28. (Previously Presented) A mobile device having wireless antennas and operable in a wireless communication network having a plurality of base stations, characterized in including:

two or more antennas installed spatially apart such that the base station of which a communication quality becomes most excellent differs antenna by antenna, where the mobile device is located in the vicinity of a boundary of wireless areas;

a communication facility configured to allow simultaneous utilizing of said two or more antennas, thereby to simultaneously communicate with a plurality of the base stations;

a detector configured for detecting a transmission/reception condition of said antennas; and

a hand-over facility configured for performing a hand-over process based upon difference of said transmission/reception condition of each of said antennas.

29. (Previously Presented) The mobile device according to claim 28, characterized in that said mobile device is a vehicle.

30. (Previously Presented) The mobile device according to claim 28, characterized in that said mobile device is a train.

31. (Previously Presented) The mobile device according to claim 28, characterized in that said mobile device is a ship.

32. (Previously Presented) The mobile device according to claim 28, characterized in raising communication reliability in a case where a set of base stations with which communication is possible via the antenna differ antenna by antenna, by communicating with respective separate base stations.

33. (Previously Presented) A mobile device having wireless antennas and operable in a wireless communication network having a plurality of base stations, characterized in including:

two or more antennas installed spatially apart such that the base station of which a communication quality becomes most excellent differs antenna by antenna, where the mobile device is located in the vicinity of a boundary of wireless areas;

two or more transmission/reception circuits mounted responding to each of said antennas;
a communication facility configured to allow simultaneous utilizing of said two or more antennas and said two or more transmission/reception means, thereby to simultaneously communicate with a plurality of the base stations;

a detector configured for detecting a transmission/reception condition of said antennas; and
a hand-over facility configured for performing a hand-over process based upon said transmission/reception condition of each of said antennas.

34. (Previously Presented) The mobile device according to claim 33, characterized in that said mobile device is a vehicle.

35. (Previously Presented) The mobile device according to claim 33, characterized in that said mobile device is a train.

36. (Previously Presented) The mobile device according to claim 33, characterized in that said mobile device is a ship.

37. (Previously Presented) The mobile device according to claim 33, characterized in raising a communication reliability by, in a case where a set of base stations with which communication is possible via the antenna differ antenna by antenna, making communication with respective separate base stations.

38. (Previously Presented) A method of arranging wireless interfaces, characterized in including the steps of: arranging two or more antennas separately at an extent that

the base station of which a communication quality becomes most excellent antenna by antenna in a case where a mobile device has stood still in the vicinity of a boundary of wireless areas; mounting two or more transmission/reception circuits correspondingly to each antenna; and arranging wireless interfaces so that said two or more antennas and said two or more transmission/reception circuits are simultaneously utilized, thereby to simultaneously make communication with a plurality of the base stations and performing a hand-over process based upon a difference of radiowave intensities of said transmission/reception of each of said antennas.

39. (Previously Presented) A hand-over method of mobile telecommunications, characterized in including the steps of: detecting a difference of transmission/reception condition of two or more antennas mounted separately on a mobile body at an extent that a base station of which radio wave intensity becomes maximum differs antenna by antenna in a case where the mobile body has stood still in the vicinity of a boundary of wireless areas; and performing a hand-over process to the base station of the antenna where the radio wave intensity becomes strong with movement.

40. (Previously Presented) A hand-over method of mobile telecommunications, characterized in including the steps of: detecting a difference of transmission/reception state of two or more antennas mounted separately on a mobile body at an extent that a base station of which a communication quality becomes most excellent differs antenna by antenna in a case where the mobile body has stood still in the vicinity of a boundary of wireless areas; and performing a hand-over process to the base station of the antenna where the radio wave intensity becomes strong with movement.